For Research Use Only

# OGDHL Polyclonal antibody

Catalog Number:17110-1-AP Featured Product 19 Publications

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## Basic Information

Catalog Number:
17110-1-AP

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG10794

GenBank Accession Number:
BC026320

GeneID (NCBI):
55753

UNIPROT ID:
Q9ULD0

Full Name:
oxoglutarate dehydrogenase-like

Calculated MW:
1010 aa, 115 kDa

Observed MW:
115 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB: 1:2000-1:10000
IP: 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
IHC: 1:200-1:800

## Applications

Tested Applications:
WB, IHC, IP, ELISA

Cited Applications:
WB, IHC, IF

Species Specificity:
human, mouse, rat

Cited Species:
human, mouse, rat

***Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0***

Positive Controls:

WB : mouse brain tissue, mouse kidney tissue, rat brain tissue

IP : mouse brain tissue,

IHC : human liver tissue,

## Background Information

OGDHL(oxoglutarate dehydrogenase-like) is also named as KGDE1KL, FLJ10851, KIAA1290 and belongs to the alpha-ketoglutarate dehydrogenase family. OGDHL is one of the rate-limiting component of the multienzyme OGDH complex (OGDHC) whose malfunction is associated with neuro-degeneration and it is localized only in the mitochondrial fraction and not in the cytosolic or nuclear fractions(PMID:23152800). OGDHL negatively regulates cell proliferation by inducing apoptosis in cervical cancer cells. It may thus participate in brain-specific control of 2-oxoglutarate distribution between energy production and synthesis of the neurotransmitter glutamate(PMID:18783430). It has 3 isoforms(114 kDa, 108 kDa, 91 kDa) produced by alternative splicing.

## Notable Publications

| Author | Pubmed ID | Journal | Application |
|---|---|---|---|
| Min Tang | 31624233 | Transl Psychiatry | WB |
| Mausam Patel | 33330671 | Front Cardiovasc Med | IHC |
| Zheng Yie Yap | 34800363 | Am J Hum Genet | WB |

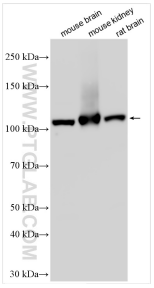
## Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

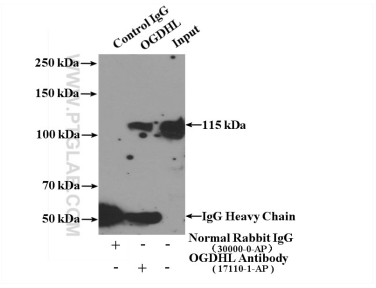
For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

**This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.**

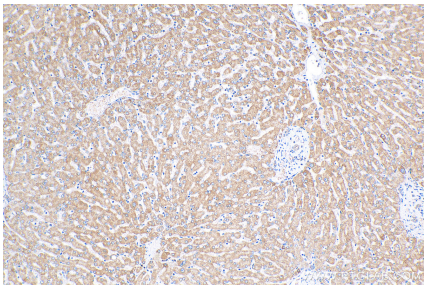
## Selected Validation Data



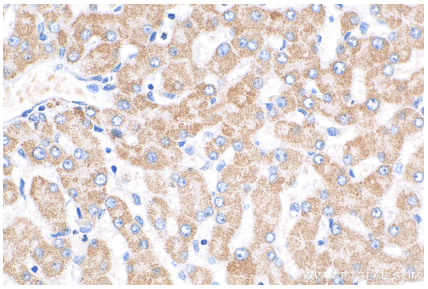

Various lysates were subjected to SDS PAGE followed by western blot with 17110-1-AP (OGDHL antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



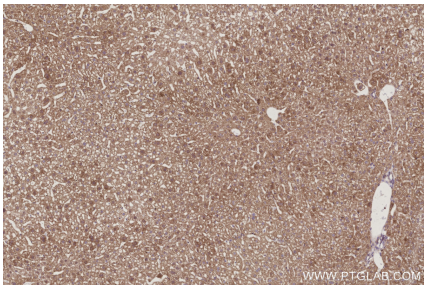

IP result of anti-OGDHL (IP:17110-1-AP, 4ug; Detection:17110-1-AP 1:500) with mouse brain tissue lysate 4000ug.



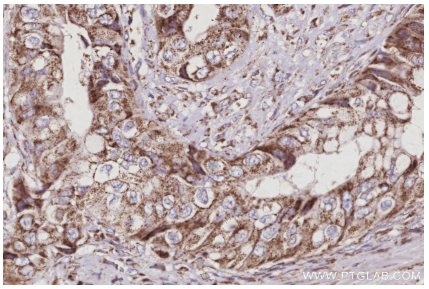
Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 17110-1-AP (OGDHL antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



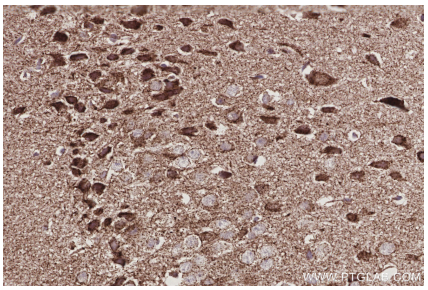
Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 17110-1-AP (OGDHL antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



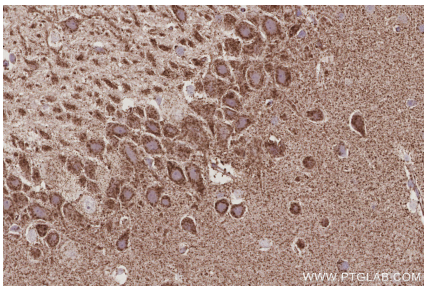
Immunohistochemical analysis of paraffin-embedded mouse liver tissue slide using 17110-1-AP (OGDHL antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human pancreas cancer tissue slide using 17110-1-AP (OGDHL antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 17110-1-AP (OGDHL antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded rat brain tissue slide using 17110-1-AP (OGDHL antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).